

FORM
2

Rev
05/22

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203
Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

403424136

(SUBMITTED)

Date Received:

06/06/2023

APPLICATION FOR PERMIT TO

☒ Drill ☐ Deepen ☐ Re-enter ☐ Recomplete and Operate

Amend ☐

TYPE OF WELL OIL ☒ GAS ☐ COALBED ☐ OTHER: Unplanned Sidetrack

Refill ☐

ZONE TYPE SINGLE ZONE ☒ MULTIPLE ZONES ☐ COMMINGLE ZONES ☐

Sidetrack ☒

Well Name: Cosslett East

Well Number: 1N-22H-H168

Name of Operator: CRESTONE PEAK RESOURCES OPERATING LLC

COGCC Operator Number: 10633

Address: 1801 CALIFORNIA STREET #2500

City: DENVER

State: CO

Zip: 80202

Contact Name: Kate Miller

Phone: (303)241-6910

Fax: ()

Email: kmiller@civiresources.com

FINANCIAL ASSURANCE FOR PLUGGING, ABANDONMENT, AND RECLAMATION

COGCC Financial Assurance

☒ The Operator has provided or will provide Financial Assurance to the COGCC for this Well.

Surety ID Number (if applicable): 20160104

Federal Financial Assurance

☐ In checking this box, the Operator certifies that it has provided or will provide at least this amount of Financial Assurance to the federal government for this Well. (Per Rule702.a.)

Amount of Federal Financial Assurance \$

WELL LOCATION INFORMATION

Surface Location

QtrQtr: SENE Sec: 22 Twp: 1N Rng: 68W Meridian: 6

FNL/FSL

FEL/FWL

Footage at Surface: 1716 Feet FNL 1078 Feet FEL

Latitude: 40.039229

Longitude: -104.983901

GPS Data:

GPS Quality Value: 1.4

Type of GPS Quality Value: PDOP

Date of Measurement: 07/24/2019

Ground Elevation: 5181

Field Name: WATTENBERG

Field Number: 90750

Well Plan: is ☐ Directional ☒ Horizontal (highly deviated) ☐ Vertical

If Well plan is Directional or Horizontal attach Deviated Drilling Plan and Directional Data.

Subsurface Locations

Top of Productive Zone (TPZ)

Sec: 23 Twp: 1N Rng: 68W

Footage at TPZ: 460 FNL 500 FEL

Measured Depth of TPZ: 10428

True Vertical Depth of TPZ: 7730

FNL/FSL

FEL/FWL

Base of Productive Zone (BPZ)Sec: 26 Twp: 1N Rng: 68WFootage at BPZ: 460 FSL 476 FELMeasured Depth of BPZ: 20185True Vertical Depth of BPZ: 7730 FNL/FSL FEL/FWL**Bottom Hole Location (BHL)**Sec: 26 Twp: 1N Rng: 68WFootage at BHL: 460 FSL 476 FELFNL/FSLFEL/FWL**LOCAL GOVERNMENT PERMITTING INFORMATION**County: WELDMunicipality: N/A

Is the Surface Location of this Well in an area designated as one of State interest and subject to the requirements of §

24-65.1-108 C.R.S.? Yes

Per § 34-60-106(1)(f)(I)(A) C.R.S., the following questions pertain to the Relevant Local Government approval of the siting of the proposed Oil and Gas Location.

SB 19-181 provides that when "applying for a permit to drill," operators must include proof that they sought a local government siting permit and the disposition of that permit application, or that the local government does not have siting regulations. § 34-60-106(1)(f)(I)(A) C.R.S.

Does the Relevant Local Government regulate the siting of Oil and Gas Locations, with respect to this Location? ☒ Yes ☐ No☒ If yes, in checking this box, I hereby certify that an application has been filed with the local government with jurisdiction to approve the siting of the proposed oil and gas location.The disposition of the application filed with the Relevant Local Government is: Approved Date of Final Disposition: 10/26/2020Comments: The WOGLA 1041WOGLA20-0018 was approved on October 26, 2020.**SURFACE AND MINERAL OWNERSHIP AT WELL'S OIL & GAS LOCATION**Surface Owner of the land at this Well's Oil and Gas Location: ☒ Fee ☐ State ☐ Federal ☐ IndianMineral Owner beneath this Well's Oil and Gas Location: ☒ Fee ☐ State ☐ Federal ☐ Indian

Surface Owner Protection Bond (if applicable): _____

Surety ID Number (if applicable): _____

MINERALS DEVELOPED BY WELL

The ownership of all the minerals that will be developed by this Well is (check all that apply):

☒ Fee☐ State☒ Federal☐ Indian☐ N/A

LEASE INFORMATION

Using standard QtrQtr, Section, Township, Range format describe one entire mineral lease as follows:

* If this Well is within a unit, describe a lease that will be developed by the Well.

* If this Well is not subject to a unit, describe the lease that will be produced by the Well.

(Attach a Lease Map or Lease Description or Lease if necessary.)

T1N R67W Sec. 19: Lots 1, 2; E/2W/2, SE/4; Sec. 29: NW/4, S/2; T1N R68W Sec. 3: Lot 2, S/2NW/4, SW/4, SE/4; Sec. 10: NW/4; S/2; Sec. 11: NW/4; S/2; Sec. 13: NW/4; S/2; Sec. 14: NW/4; S/2; Sec. 15: NW/4; S/2; Sec. 23: NW/4; S/2; Sec. 25: NW/4; S/2; Sec. 27: NW/4; S/2; Sec. 35: NW/4; S/2.

Total Acres in Described Lease: 5753

Described Mineral Lease is: ☒ Fee

☐ State

☐ Federal

☐ Indian

Federal or State Lease # _____

SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 596 Feet

Building Unit: 1015 Feet

Public Road: 518 Feet

Above Ground Utility: 807 Feet

Railroad: 4183 Feet

Property Line: 306 Feet

INSTRUCTIONS:

- Specify all distances per Rule 308.b.(1).
- Enter 5280 for distance greater than 1 mile.
- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.
- Building Unit – as defined in 100 Series Rules.

OBJECTIVE FORMATIONS

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
NIOBRARA	NBRR	407-2533	1920	T1N R68W Sec. 22: E/2; Sec. 23: All; Sec. 26: All; Sec. 27: E/2

Federal or State Unit Name (if appl): _____

Unit Number: _____

SUBSURFACE MINERAL SETBACKS

Enter 5280 for distance greater than 1 mile.

Is this Well within a unit? Yes

If YES:

Enter the minimum distance from the Completed Zone of this Well to the Unit Boundary: 460 Feet

Enter the minimum distance from the Completed Zone of this Well to the Completed Zone of an offset Well within the same unit permitted or completed in the same formation: 360 Feet

If NO:

Enter the minimum distance from the Completed Zone of this Well to the Lease Line of the described lease: _____ Feet

Enter the minimum distance from the Completed Zone of this Well to the Completed Zone of an offset Well producing from the same lease and permitted or completed in the same formation: _____ Feet

Exception Location

☐ If this Well requires the approval of a Rule 401.c Exception Location, enter the Rule or spacing order number and attach the Exception Location Request and Waivers. _____

SPACING & FORMATIONS COMMENTS

The OGDG Order No. 407-3397 approved the expansion of the Cosslett pad and approved the COGCC Form 2A.

DRILLING PROGRAM

Proposed Total Measured Depth: 20185 Feet

TVD at Proposed Total Measured Depth 7730 Feet

Distance from the proposed wellbore to nearest existing or proposed wellbore belonging to another operator, including plugged wells:

Enter distance if less than or equal to 1,500 feet: 188 Feet ☐ No well belonging to another operator within 1,500 feet

Will a closed-loop drilling system be used? Yes

Is H₂S gas reasonably expected to be encountered during drilling operations at concentrations greater than

or equal to 100 ppm? No If yes, attach an H₂S Drilling Plan unless a plan was already submitted with the Form 2A per Rule 304.c.(10).

Will there be hydraulic fracture treatment at a depth less than 2,000 feet in this well? No

Will salt sections be encountered during drilling? No

Will salt based (>15,000 ppm Cl) drilling fluids be used? No

Will oil based drilling fluids be used? Yes

BOP Equipment Type: ☒ Annular Preventor ☒ Double Ram ☒ Rotating Head ☐ None

Beneficial reuse or land application plan submitted? No

Reuse Facility ID: or Document Number:

CASING PROGRAM

Casing Type	Size of Hole	Size of Casing	Grade	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
CONDUCTOR	17+1/2	13+3/8	J-55	54.5	0	589	920	589	0
SURF	12+1/4	9+5/8	J-55	36	0	2818	900	2818	0
1ST	8+1/2	5+1/2	P-110	20	0	20185	3138	20185	
NEW	30	20	A53B	52.78	0	145	200	145	0

☐ Conductor Casing is NOT planned

POTENTIAL FLOW AND CONFINING FORMATIONS

Zone Type	Formation /Hazard	Top M.D.	Top T.V.D.	Bottom M.D.	Bottom T.V.D.	TDS (mg/L)	Data Source	Comment
Groundwater	Denver	0	0	154	154	501-1000	Groundwater Atlas	USGS HA-646 (Robson & Romero, 1981)
Groundwater	Laramie	154	154	634	631	501-1000	Groundwater Atlas	USGS HA-646 (Robson & Romero, 1981)
Groundwater	Fox Hills	631	634	810	803	501-1000	Groundwater Atlas	USGS HA-646 (Robson & Romero, 1981)
Confining Layer	Pierre Shale	810	803	1067	1049			
Groundwater	Upper Pierre Aquifer	1067	1049	2157	1985	1001-10000	Electric Log Calculation	Coslett B Unit 1X (05-123-12630)
Confining Layer	Pierre Shale	2157	1985	5378	4363			
Hydrocarbon	Larimer	5378	4363	5937	4771			Non-productive horizon.
Hydrocarbon	Shannon	5378	4363	6990	5539			
Hydrocarbon	Sussex	5937	4771	5378	4363			
Hydrocarbon	Pierre Shale	6990	5539	10059	7613			
Hydrocarbon	Sharon Springs	10059	7613	10146	7618			
Hydrocarbon	Niobrara	10146	7618	10233	7618			

OPERATOR COMMENTS AND SUBMITTAL

Comments

This Form 2 is being submitted for a sidetrack of the wellbore, the below is an account of what occurred prior to sidetracking and the proposed sidetrack procedure approved verbally by COGCC staff (see attached correspondence).

1. While drilling in the lateral section of our Cosslett East 1N-22H-H168 well, we were having difficulty steering the well and were becoming extremely close to drilling across a setback line to the east of the well. As we attempted to correct back to plan, we identified that we would likely drill past the setback line and potentially remain past the setback line for a significant portion of the remaining lateral to be drilled.
2. Total measured depth reached in the wellbore being plugged back: 18,436' MD
3. Casing set – size(s) and measured depth(s): 13-3/8" 54.5# Conductor Casing, Set at 589', 9-5/8" 36# Surface Casing, Set at 2,818'
4. Description of fish in the hole (if any) – including top and bottom measured depths: None
5. Description of proposed plugs: setting measured depths, heights, and cement volumes: None
6. Type of cement to be used for all plugs, including slurry weight (ppg) and yield (cf/sk): None
7. Measured depth of proposed sidetrack kick-off point: 12,450' MD
8. Proposed objective formation(s) for sidetrack hole: Codell
9. BHL target for sidetrack hole: Same BHL target as original wellbore.

Attached is a up to date wellbore diagram. There were no planned changes to BHL therefore no deviated drill plans or well plats are attached.

Distance from completed zone of this wellbore to nearest completed zone of an offset well within the same unit permitted or completed in the same formation was measured to the proposed Cosslett East 1M-22H-H168 operated by Crestone Peak Resources Operating LLC in 2D.

Distance from the proposed wellbore to nearest existing or proposed wellbore belonging to another operator, including plugged wells was measured to the DA Vert Coslett B Unit 1 (05-123-12595) operated by Vessels Oil & Gas. This distance was determined by the Anticollision report.

This application is in a Comprehensive Area Plan No CAP #: _____
Oil and Gas Development Plan Name Cosslett East 22H-H168 OGDID #: 482207
Location ID: 323151

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: _____ Print Name: Ashley Noonan
Title: Sr. Regulatory Analyst Date: 6/6/2023 Email: regulatory@civiresources.com

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules, applicable orders, and SB 19-181 and is hereby approved.

COGCC Approved: _____ Director of COGCC Date: _____
Expiration Date: _____

API NUMBER

05 123 51940 01

Conditions Of Approval

All representations, stipulations and conditions of approval stated in the Form 2A for this location shall constitute representations, stipulations and conditions of approval for this Form 2 Permit-to-Drill and are enforceable to the same extent as all other representations, stipulations and conditions of approval stated in this Permit-to-Drill.

COA Type

Description

0 COA

Best Management Practices

No BMP/COA Type

Description

1	Drilling/Completion Operations	Alternative Logging Program: One of the first wells drilled on the pad will be logged with openhole resistivity log and gamma-ray log from the kick-off point into the surface casing. All wells on the pad will have a cement bond log with gamma-ray run on production casing (or on intermediate casing if production liner is run) into the surface casing. The horizontal portion of every well will be logged with a measured-while drilling gamma-ray log. The Form 5, Completion Report, for each well on the pad will list all logs run and have those logs attached. The Form 5 for a well without open-hole logs shall state "Alternative Logging Program - No open-hole logs were run" and shall clearly identify the type of log and the well (by API#) in which open-hole logs were run.
2	Drilling/Completion Operations	Anti-collision: Operator will perform an anti-collision evaluation of all active (producing, shut in, or temporarily abandoned) offset wellbores that have the potential of being within 150 feet of a proposed well prior to drilling operations for the proposed well. Notice shall be given to all offset operators prior to drilling

Total: 2 comment(s)

Attachment List

Att Doc Num

Name

403424594	CORRESPONDENCE
403424739	OffsetWellEvaluations Data
403425335	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group

Comment

Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)